

# Natural Web Server Extensions - Initialization File

This section covers the following topics:

- General Information
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  - Natural Web Server Extension Settings
  - HTTP Server Variables
  - Additional Variables
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## General Information

The Natural Web Server Extension takes runtime parameters from an initialization file. The executable file looks for an initialization file with the same name and extension .ini in the current working directory.

The names of the variables are not case sensitive, as all variables used on the WWW. Variables are limited to 72 characters; blanks are recognized as normal characters, so parameters can be specified multiple times.

## RPC Parameters

These parameters are needed for communication with EntireX RPC.

Parameter	Description
RPC_CLASS_NAME	Defines the class of the service used. Always use RPC.
RPC_ETB_ID_NAME	Name of the EntireX Broker to be called.
RPC_NO_LOGON	Logon to the library specified at the URL. Default is 0.
RPC_SERVER_NAME	Name of the called Broker Service.
RPC_SERVICE_NAME	Defines the called service. Always use CALLNAT.
RPC_TIME_OUT	Defines the timeout for the call. Default is 7000.

## DCOM Parameters

These parameters are needed for the communication with DCOM.

Parameter	Description
DCOM_SERVER_NAME	Name of the called DCOM Server.  (Specify only if the Natural Server is not running on the same computer.)

## Natural Web Server Extension Settings

This group of parameters define the settings of the Natural Web Server Extension.

Parameter	Description
ECHO_ENVIRONMENT	This parameter is only useful if the default error page is used. If this parameter is specified and set to 1, equal to the \$NWW_ENVIRONMENT of the user-defined error page, all environment variables will be written as comment lines to the error page.
ERROR_LOG_FILE	Defines a file for error logging. If this parameter is not specified, the log is disabled. Each log entry has the same layout and can easily be located in the error-log file by searching for the string the cgi is named.  Sample Log Entry: [Thu Jun 28 10:51:19 2001] nwwcgi.exe 04.02.00 Win32: processing of /cgi-bin/nwwcgi.exe failed for Lib:{library} Sub:{subprogram} Path:{path_info}, for natweb.software-ag.de reason NWW0001 No subprogram and library specified.
ERROR_STDERR	If this parameter is set to 1, all errors are logged via stderr. The actual location of the log file depends on the HTTP server used and the way it has been parameterized. See also ERROR_LOG_FILE. Some HTTP servers do not support the use of stderr.
ERROR_TEMPLATE	Defines an error template file. If this parameter is not specified, a default error page will be generated. See Error Templates below.
NWW_INOUT_LENGTH	Defines the amount of the transferred data. This parameter defines the dimension of the parameter Out_Page of the IDL file.  Used IDL File:  <pre>DEFINE DATA PARAMETER 1 Version-Nr (A15) In 1 Log-Time (A30) In 1 Out_Page (A RPC_INOUT_FORMAT 1:RPC_INOUT_LENGTH) In Out 1 Out_Page_Count(I04) In Out 1 Result (I04) Out END-DEFINE</pre>
NWW_PASSWORD	Defines the password for the user ID.

NWW_PATH_INFO	To test the Natural Web Server Extension in stand-alone mode (test environment), set this parameter to specify the library and program name. If you use the Natural Web Server Extension in the regular mode (with HTTP-Server) you must disable this parameter.  Example: NWW_PATH_INFO=/syshtml/nat-env																		
NWW_PATHINFO_PREFIX	This parameter can only be used in conjunction with the ISAPI interface. If the interface is defined as application mapping (e.g. for directory nww and the extension .nww), the PATH_INFO variable delivers a prefixed URL with directory and the file name (e.g./nww/my.nww/sysweb/nat-env). This prefix (/nww/my.nww) has to be removed. Use this parameter to the specified used prefix. Example: NWW_PATHINFO_PREFIX=/nww/my.nww																		
NWW_OUT_CSS	Replaces the strings by the specific characters:  <table border="1"><thead><tr><th>String</th><th>Character</th></tr></thead><tbody><tr><td>&amp;#09;</td><td>--&gt;  (Tab)</td></tr><tr><td>&amp;#64;</td><td>@</td></tr><tr><td>&amp;#91;</td><td>[</td></tr><tr><td>&amp;#92;</td><td>\</td></tr><tr><td>&amp;#93;</td><td>]</td></tr><tr><td>&amp;#123;</td><td>{</td></tr><tr><td>&amp;#124;</td><td>/</td></tr><tr><td>&amp;#125;</td><td>}</td></tr></tbody></table> This setting can be useful if cascading style sheets are used and the RPC server is placed on a computer which uses the EBCDIC code. Default is 0. Use 1 to activate.	String	Character	&#09;	-->  (Tab)	&#64;	@	&#91;	[	&#92;	\	&#93;	]	&#123;	{	&#124;	/	&#125;	}
String	Character																		
&#09;	-->  (Tab)																		
&#64;	@																		
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&#124;	/																		
&#125;	}																		
NWW_OUT_CSS_TRANSLATE	Replaces the characters by the specific hex values : (Default value for ASCII)  <table border="1"><thead><tr><th>Character</th><th>Hex value</th></tr></thead><tbody><tr><td>--&gt;  (Tab)</td><td>09</td></tr><tr><td>@</td><td>40</td></tr><tr><td>[</td><td>5B</td></tr><tr><td>\</td><td>5C</td></tr><tr><td>]</td><td>5D</td></tr><tr><td>{</td><td>7B</td></tr><tr><td> </td><td>7C</td></tr><tr><td>}</td><td>7D</td></tr></tbody></table> <b>Example for english EBCDIC (codepage 37):</b> # (tab), @, [, \, ], {,  , } NWW_OUT_CSS_TRANSLATE=05,7C,AD,61,BD,C0,4F, D0	Character	Hex value	-->  (Tab)	09	@	40	[	5B	\	5C	]	5D	{	7B		7C	}	7D
Character	Hex value																		
-->  (Tab)	09																		
@	40																		
[	5B																		
\	5C																		
]	5D																		
{	7B																		
	7C																		
}	7D																		
NWW_USER_ID	User ID used for the RPC.																		
NWW_RETRY	If a 3009 error (NAT3009 Transaction aborted) occurs, this parameter defines how often the program will be called again. Default is 3.																		

INI_RELOAD	Load initialization file only once during the first call. Not for CGI interface. Default is 1.
REMOVE_USER_DOMAIN	IIS server on NT deliver as REMOTE_USER the username prefixed with the name of the domain the user belongs to. Natural can only handle user names with a maximum length of 8 characters. If USE_REMOTE_USER is set to 1 and REMOVE_USER_DOMAIN is set also to 1 the used domain name from the given REMOTE_USER name is removed. This means the information after the last "/" is delivered to Natural as the user name .
TRACE_FILE	If a file name is specified, the last pages returned to the HTTP server will be saved to this file. If this parameter is specified, no output is written.
USE_REMOTE_USER	Replace the RPC_USER_ID with the given REMOTE_USER. Set to 1 to activate it.

## HTTP Server Variables

All HTTP server variables to be transferred to the called program must be specified. To do this, specify the variable ENV with the name of the variable to be transferred. The ENV variable can be specified multiple times.

Some useful variables:

```
ENV=REMOTE_HOST  
ENV=REMOTE_ADDR  
ENV=SCRIPT_NAME  
ENV=HTTP_REFERER  
ENV=HTTP_HOST  
ENV=HTTP_COOKIE
```

For more information on variables, see <http://hoohoo.ncsa.uiuc.edu/cgi/env.html>.

## Additional Variables

With the Natural Web Server Extension, it is additionally possible to transfer variables to the called program. To do this, specify the variable SETENV with the name of the variable followed by := and the value to be transferred. The SETENV variable can be specified multiple times.

Example:

```
SETENV=PICTURES:=/pictures
```

# Error Templates

## Default Error Report

If parameter ERROR TEMPLATE is not specified, a default is used.

This is an example of a default error report:

**nwwcgi.exe Error Report**

*Natural Web Interface NWW5100c Win32*

**The following error has been logged in the error log file:**

**/cgi-bin/nwwcgi.exe:** processing of subprogram/method **NAT-INFO**  
at library/class **SYSWEB** failed.

**reason:** **NWW0011** ERX error 80010014 occurred.

Severity = Error  
Facility = 65536  
Returncode = 20  
Subfacility = 3  
Location = 0

Message:  
**ERX\_E\_SERVICE\_NOT\_AVAILABLE** - ETB error code 02150148

**for:** pcnatweb.software-ag.de:80

**path:** /sysweb/nat-info

NWW Error - Fri Mar 15 10:20:28 2002

Natural

## Specifying your own Error Template

You can also specify your own error template. The error template is basically a normal return page. As for all return pages, the content type must be set. The only addition is the replacement of variables. To do this, specify the environment variable beginning with a \$ sign. See Example of an Error Template below.

The following "environment variables" are additionally available for error templates:

Environment Variable	Description
NWW_LOGTIME	Time and date the error will be logged if an ERROR_LOG_FILE is specified.
NWW_VERSION	Version number of the Natural Web Server Extension.
NWW_RUN	Name of the program that was called.
NWW_ERROR	Number of the error that has occurred.
NWW_LIBRARY NWW_CLASS	Name of the library/class that was called.
NWW_SUBPROGRAM NWW_METHOD	Name of the subprogram/method that was called.
NWW_ENVIRONMENT	All environment variables will be written as comment lines to the error page.

## Example of an Error Template

```
<!DOCTYPE HTML PUBLIC '-//W3C//DTD HTML 3.2//EN'>
<HTML>
<HEAD>
<META http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<TITLE>$NWW_RUN Error Report - $NWW_LOGTIME</TITLE>
</HEAD>
<BODY bgcolor="#FFFFFF" text="#000000">
<TABLE border="0" width="100%" cellspacing="0" cellpadding="5">
<TR bgcolor="#CCFFCC">
<TD><H2 align="center">
    $NWW_RUN Error Report
</H2>
<P align="center">
    <I><SMALL>Natural Web Server Extension Interface: $NWW_VERSION</SMALL></I></TD>
</TR>
<TR>
    <TD><B>The following error has been logged in the error log file:</B></TD>
</TR>
</TABLE>
<TABLE border="0" width="100%" cellspacing="15" cellpadding="0">
<TR valign="top">
    <TD align="right"><B>$SCRIPT_NAME:</B></TD>
    <TD><TT>processing of subprogram/method <B>$RPC_SUBPROGRAM</B><BR>
        at library/class <B>$RPC_LIBRARY</B> failed.</TT></TD>
</TR>
<TR valign="top">
    <TD align="right"><B>reason:</B></TD>
    <TD><PRE>$RPC_ERROR
</PRE>
    </TD>
</TR>
<TR valign="top">
    <TD align="right"><B>for:</B></TD>
    <TD><TT>$SERVER_NAME:$SERVER_PORT</TT></TD>
</TR>
<TR valign="top">
    <TD align="right"><B>path:</B></TD>
    <TD><TT>$PATH_INFO</TT></TD>
</TR>
</TABLE>
<TABLE border="0" width="100%" cellspacing="0" cellpadding="5">
<TR bgcolor="#CCFFCC">
    <TD>NWW Error Template - $NWW_LOGTIME</TD>
    <TD align="right">Natural</TD>
</TR>
</TABLE>
<P>
$NWW_ENVIRONMENT
</BODY></HTML>
```